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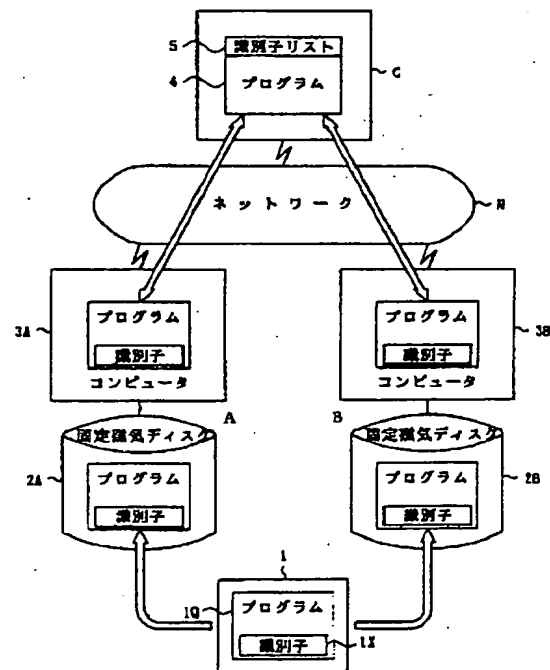
(54)【発明の名称】 データ通信方式

(57)【要約】

【目的】 ネットワークを介して分散配置された各システムで使用される製品媒体に格納された既製プログラムの管理が容易なデータ通信方式を得る。

【構成】 各システムで使用される既製のプログラムとして、それが格納された製品媒体毎に特有の識別子が付加されたものを使用するとともに、このプログラムを使用しての通信路確立時にこのプログラムに付加された識別子情報を相手側システムに送出し、この識別子情報を受信した相手側システムではこの識別子情報を識別子リストに格納するとともに、識別子リスト中における同一識別子情報の有無の検索等を行なうようにした。

【効果】 ネットワーク上の各システムで使用されている既製プログラムのオリジナル媒体の確認、プログラムの不法コピー使用のチェック等プログラム管理が容易なデータ通信方式が得られる。



## 【特許請求の範囲】

【請求項1】 ネットワークを介して分散配置された各システムで、媒体に格納されて製品として提供され自システムに読込まれた既製のプログラムを使用して、相手側システムとの間でデータの送受信を行なうデータ通信方式において、上記既製のプログラムとしてそれが格納された製品媒体毎に特有の識別子が付加されたものを使用するとともに、各システムに、このプログラムを使用するの通信路確立時に上記プログラムに付加された識別子情報を相手側システムに送出する識別子送出手段と、相手側から送出された識別子情報の識別子リストへの格納、識別子リスト中における同一識別子情報の有無の検索等を行なう識別子管理手段とを備えたことを特徴とするデータ通信方式。

## 【発明の詳細な説明】

## 【0001】

【産業上の利用分野】 この発明は、ネットワークを介して分散配置された各システム間でのデータ通信方式に関し、特にその通信に使用される既製プログラムの管理方式の改良に関する。

## 【0002】

【従来の技術】 一般に、データ通信方式において各システムで使用されるプログラムは、既製のプログラムとして磁気テープ、フロッピーディスク等の媒体に格納され製品として提供されるものが使用される。図3は従来の通信方式におけるこのようなプログラムの利用形態を示す概念図で、図において、A、B、Cは分散配置された各システム、NはこれらシステムA、B、C間に通信路を形成するネットワーク、1は既製のプログラム1Pが格納され製品として提供されたフロッピーディスク、2A、2Bはフロッピーディスク1A、1Bから読込まれたプログラム1Pを格納する各システムA、Bの固定磁気ディスク、3A、3Bは、固定磁気ディスク2A、2Bからプログラム1Pを讀出して例えばシステムCとの間でデータ通信を実行する各システムA、Bのコンピュータ、4はシステムC内で動作しシステムA、Bとデータ通信を実行するプログラムである。

【0003】 次に動作について説明する。まず、システムAが構成された時点で、製品として提供されたフロッピーディスク1から固定磁気ディスク2Aにプログラム1Pが読込まれ格納される。それから、プログラム1Pを使用してシステムAとシステムCとのデータ通信を行なうには、コンピュータ3Aにより固定磁気ディスク2A中に格納されたプログラム1Pが読出され、そのプログラムに従って最初に両者の間でネットワークN中に通信路を確立するための交信が行なわれ、通信路が確立したらこの通信路を介してプログラム1Pとプログラム4の間でデータ通信が行なわれる。システムBとシステムCとの間でも同様の処理でデータ通信が行なわれる。

## 【0004】

【発明が解決しようとする課題】 従来のデータ通信方式は以上のように構成され、各システムにおいて製品として提供されたフロッピーディスク1から自システムに読込み格納された既製のプログラム1Pを使用して行なわれているが、既製プログラムの管理、不法コピーの防止上例えばプログラム1Pの内容が同じでも各システムにおいては製品として提供される別のフロッピーディスク1からそれぞれのシステムに読込まれることが望まれる。しかし、この従来の方式では既製プログラムを不法コピーして、例えばフロッピーディスク1をコピーして他のシステムBで使用してもこれを見出す手段がなかった。また、既製プログラムのコピー防止手段は従来から提案されているが、それはプログラムのコピーそれ自身を禁止するものであって、バックアップコピーのような正当なコピーをもとれなくなるという問題点があった。

【0005】 この発明は上記のような問題点を解消するためになされたもので、既製プログラムの不法コピーが容易に発見することができ、しかもバックアップコピーのような同じシステム内で行なわれる正当なコピーは可能な、既製プログラムを使用したデータ通信方式を得ることを目的とする。

## 【0006】

【課題を解決するための手段】 この発明に係るデータ通信方式は、既製のプログラムとしてそれが格納された製品媒体毎に特有の識別子が付加されたものを使用するとともに、各システムに、このプログラムを使用するの通信路確立時に上記プログラムに付加された識別子情報を相手側システムに送出する識別子送出手段と、相手側から送出された識別子情報の識別子リストへの格納、識別子リスト中における同一識別子情報の有無の検索等を行なう識別子管理手段とを備えたものである。

## 【0007】

【作用】 この発明におけるデータ通信方式は、使用される既製プログラムに付加された識別子情報が他のシステムとの間の通信路の確立により相手側システムに送出され、相手側システムの識別子リストに格納されるので、同一製品媒体からの不法コピーにより同じ既製プログラムが複数のシステムから同じ相手側システムへのデータ通信に使用されると、その相手側システムの識別子リストに同じ識別子情報が異ったシステムからの識別子情報として格納され、識別子管理手段の同一識別子情報の有無の検索により容易に不法コピーが発見できる。しかし、同じシステム内でコピーされたプログラムが使用されても、他のシステムで使用されない限り不法コピーによるものと見ないので問題はない。

## 【0008】

【実施例】 以下、この発明の一実施例を図について説明する。図1はこの発明の一実施例を示す概念図で、図において、A、B、Cは分散配置された各システム、Nはネットワーク、1は製品媒体としてのフロッピーディス

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ク、1Qはこれらフロッピーディスク1に格納されている既製プログラム、1Xはこれら既製プログラム1Qに付加されたこのフロッピーディスク1特有の識別子、2A、2Bは各システムA、Bの固定磁気ディスク、3A、3Bは、各システムA、Bのコンピュータ、4はシステムC内で動作するプログラム、5は通信相手側システムA、Bから送出されてきた識別子情報を格納する識別子リストである。

【0009】図2はこの実施例における一システムを示す概略構成図で、図において、1Q、1X、3及び5は、図1のシステムA、B、Cの何れか（或は他）における、既製プログラム、識別子、コンピュータ及び識別子リストである。6は図1のシステムA、B、Cの何れか（或は他）である通信相手側システム、7は通信開始にあたってネットワークN中に相手側システム6との間の通信路を確立する通信路確立手段、8は確立された通信路で相手側システム6とデータの送受信を行なうデータ送受信手段、9は通信路確立手段7による通信路確立に応じて使用プログラム1Qに付加された識別子1Xの情報を相手側システム6に送出する識別子送出手段、10は、相手側システム6から送出された識別子情報を識別子リスト5に格納したり、通信路確立手段7による通信路解放時のこの解放された通信に使用されたプログラムの識別子情報を識別子リスト5から削除したり、識別子リスト5中における同一識別子情報の有無の検索を行なったりする識別子管理手段である。

【0010】次に、その動作をシステムA、Bが同じフロッピーディスク1を不法コピーして使用したとして説明する。まず、システムA、Bにおいて、製品として提供されたフロッピーディスク1及びそのコピーからそれぞれの固定磁気ディスク2A、2Bに、プログラム1Qがそれに付加された識別子1Xと共に読込まれ格納される。

【0011】それから、最初にプログラム1Qを使用してシステムAとシステムCとの間でデータ通信が行なわれるとし、コンピュータ3Aにより固定磁気ディスク2A中に格納されたプログラム1Qが識別子1Xと共に読出され、そのプログラムに従って、通信路確立手段7により両者の間でネットワークN中に通信路を確立するための交信が行なわれ、通信路が確立したら、識別子送出手段9によりプログラム1Q中の識別子1Xの情報が相手側システム6であるシステムCに送出されるとともに、データ送受信手段8により、この通信路を介してプログラム1QとシステムCのプログラム4の間でデータ通信が行なわれる。システムAからシステムCに送られた識別子情報はシステムCの識別子管理手段10により識別子リスト5に格納される。

【0012】次に、システムAとシステムC間の通信路が解放される前に、不法コピーしたシステムAと同一のプログラム1Qを使用してシステムBとシステムCとの

間でデータ通信が行なわれるとし、上述と同様の処理が行なわれ、システムBの通信路確立手段7により通信路が確立したら、識別子送出手段9により識別子1Xの情報がシステムCに送出され、この識別子情報もシステムCの識別子管理手段10により識別子リスト5に格納されるとともに、既に格納済みの識別子が検索され新たに受信した識別子との比較が行なわれ、これにより同一の識別子が既に存在することが判明し、システムA、Bの何れかのプログラムが不法コピーによるものであることが確認できる。通信路確立手段7により通信路が解放されると識別子管理手段10により、その解放された通信に使用されたプログラムの識別子情報が削除される。

【0013】なお、上記実施例では、同時に使用されているプログラムの不正使用の有無を判別する例を示したが、識別子リストに識別子情報とその識別子のプログラムを使用したシステムのアドレスとを対でディスクファイル上に管理することにより、各システム上で使われているプログラムのオリジナル媒体を確認することが可能となる。

【0014】

【発明の効果】以上のように、この発明によれば、既製のプログラムとしてそれが格納された製品媒体毎に特有の識別子が付加されたものを使用するとともに、各システムに、このプログラムを使用しての通信路確立時に上記プログラムに付加された識別子情報を相手側システムに送出する識別子送出手段と、相手側から送出された識別子情報の識別子リストへの格納、識別子リスト中における同一識別子情報の有無の検索等を行なう識別子管理手段とを備えたので、ネットワーク上の各システムで使われている既製プログラムのオリジナル媒体の確認、プログラムの不法コピー使用のチェック等プログラム管理が容易なデータ通信方式が得られる効果がある。

【図面の簡単な説明】

【図1】この発明の一実施例を示す概念図。

【図2】この実施例における一システムを示す概略構成図。

【図3】従来方式における既製プログラムの利用形態を示す概念図。

【符号の説明】

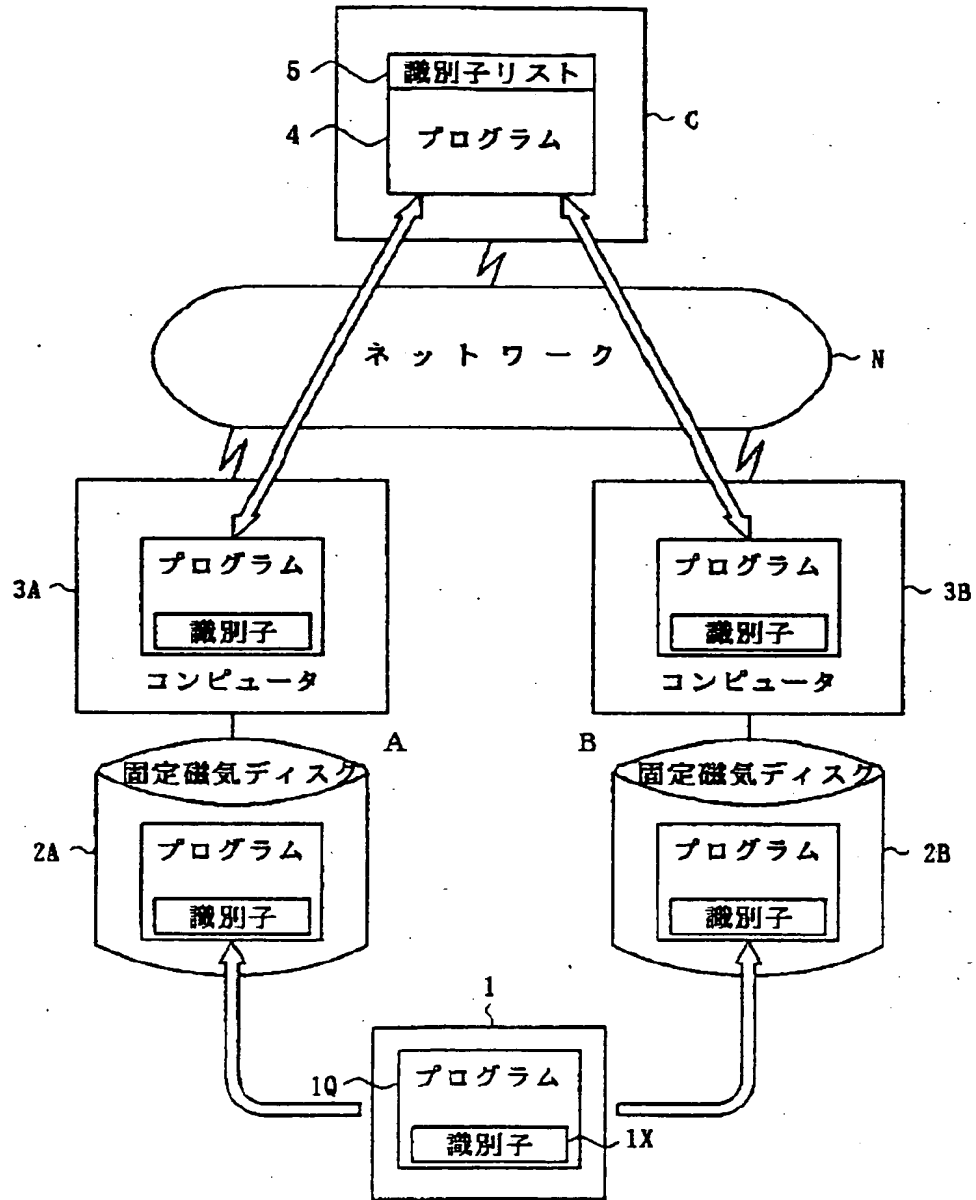
A、B、C	各システム
N	ネットワーク
1	製品媒体（フロッピーディスク）
1Q	既製プログラム
1X	識別子
2A、2B	固定磁気ディスク
3A、3B	コンピュータ
5	識別子リスト
6	相手側システム
7	通信路確立手段
8	データ送受信手段

9 識別子送出手段

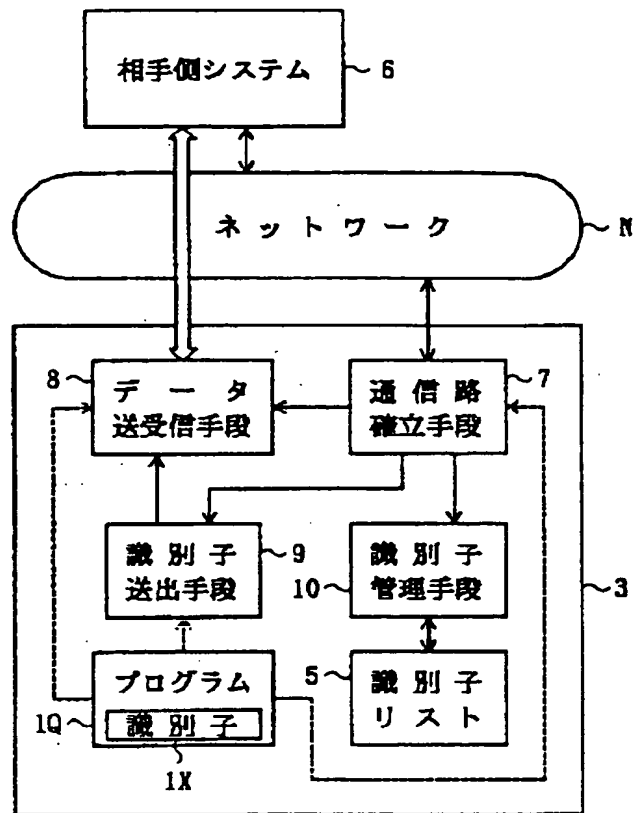
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6 識別子管理手段

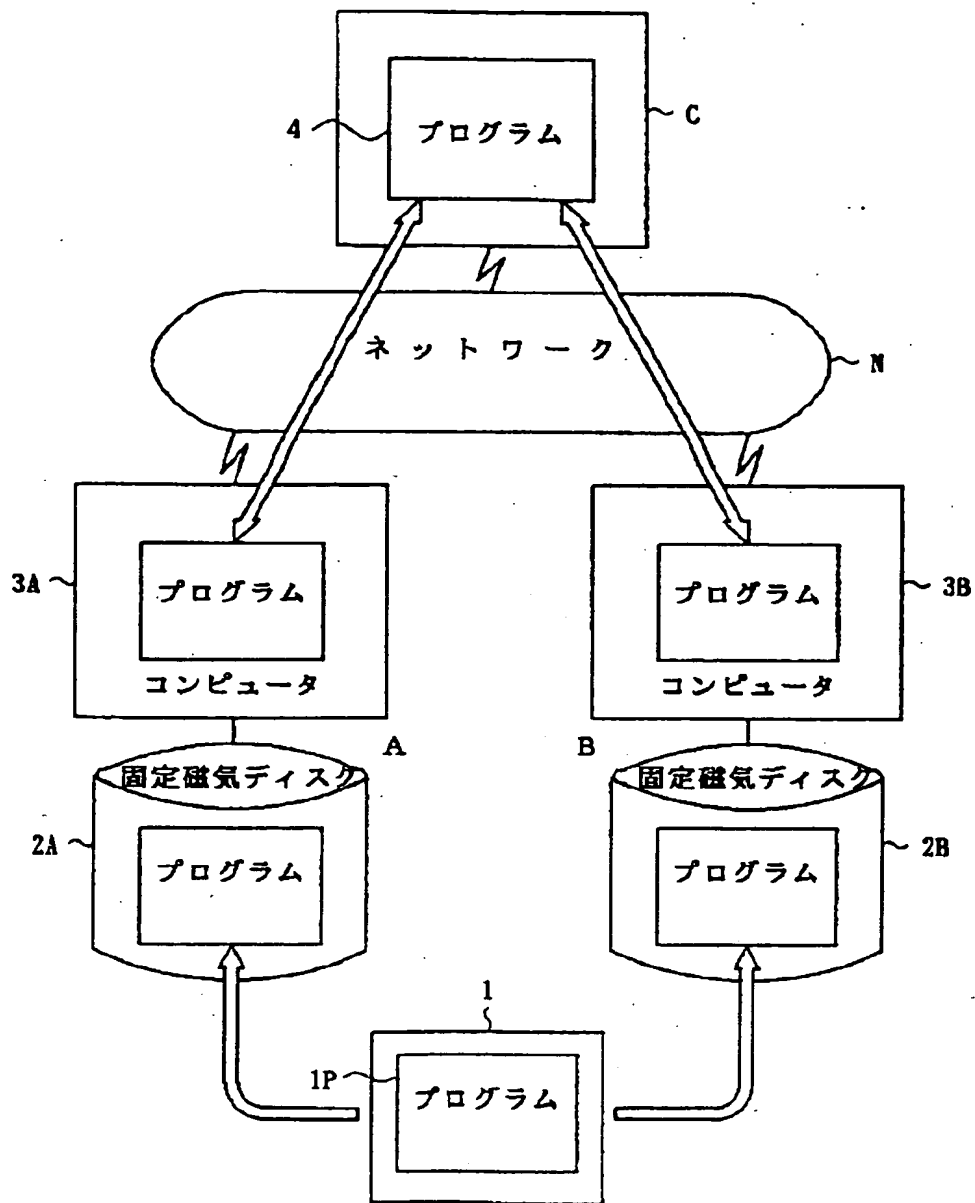
【図1】



【図2】



【図3】



## PATENT ABSTRACTS OF JAPAN

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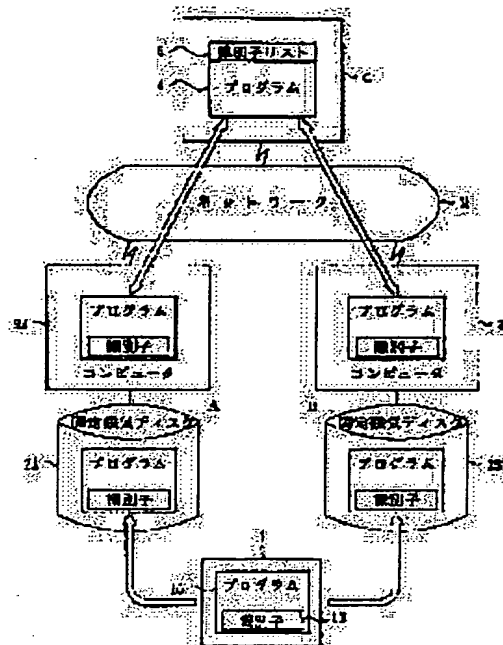
(72)Inventor : SETO HIDEKI

## (54) DATA COMMUNICATION SYSTEM

## (57)Abstract:

PURPOSE: To obtain a data communication system whose control of the ready-made program stored in product media used in each system dispersed and arranged through a network is easy.

CONSTITUTION: As a ready-made program 1Q used by respective systems A and B, the program to add a characteristic identifier 1X for product media 1 to store it is used, and at the time of establishing a communication line using the program 1Q, the identifier information added to the program 1Q is sent to an opponent side system, and at the opponent side system to receive the identifier information, the identification information is stored in an identifier list 5 and the retrieval, etc., of the presence of the same identifier information in the identifier list 5 are performed. Then, the data communication system whose program control such as the confirmation of the original media of the ready-made program 1Q used by respective systems A and B on the network and the checking of the illegal copy use of the program is easy can be obtained.



## LEGAL STATUS

[Date of request for examination]

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[Date of final disposal for application]

[Patent number]

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[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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**CLAIMS**

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**[Claim]**

[Claim 1] In the data communication system which uses the ready-made program which was stored in the medium, was offered as a product and read into the self-system by each system distributed through the network, and transmits and receives data between the other party systems While that to which the characteristic identifier was added for every product medium with which it was stored as the above-mentioned ready-made program is used An identifier sending-out means to send out the identifier information added to the above-mentioned program at the time of the channel establishment which uses this program for each system to the other party system. The data communication system characterized by having the identifier management tool which performs reference of the existence of a store on the identifier list of identifier informations delivered from the other party, and the same identifier information under identifier list etc.

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[Translation done.]



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## DETAILED DESCRIPTION

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[Detailed description]

[0001]

[Field of the Invention] This invention relates to enhancement of the management formula of the ready-made program used especially for the communication about the data communication system between each system distributed through the network.

[0002]

[Prior art] Generally, what the program used by each system in a data communication system is stored in mediums, such as a magnetic tape and a floppy disk, as a ready-made program, and is offered as a product is used. Drawing 3 is the conceptual diagram showing the use gestalt of such a program in the conventional communication mode. Each system by which A, B, and C were distributed in drawing, the network where N forms a channel between these systems A and B and C. The floppy disk by which program 1P [ready-made in 1] were stored, and were offered as a product. The hard disk of each systems A and B which stores program 1P into which 2A and 2B were read from floppy disks 1A and 1B, and 3A and 3B Hard disk 2A, the computer of each systems A and B which read program 1P from 2B, for example, perform data communication between system C, and 4 are programs which operate within system C and perform systems A and B and data communication.

[0003] Next, an operation is explained. First, when system A is constituted, program 1P are read and stored in hard disk 2A from the floppy disk 1 offered as a product. And in order to perform data communication of system A and system C using program 1P, program 1P stored by computer 3A in hard disk 2A are read, communication for establishing a channel in network N among both first according to the program is performed, a channel is established and data communication is performed between program 1P and the program 4 through the channel of code. Data communication is performed by the same processing also between system B and system C.

[0004]

[Object of the Invention] The conventional data communication system is constituted as mentioned above, and although carried out using ready-made program 1P read and stored in the self-system from the floppy disk 1 offered as a product in each system, to read a management of a ready-made program and the content of metaphor program 1 on prevention P of an illegal copy into each system from the same another floppy disk 1 offered as a product in each system but is desired. However, in this conventional formula, even if it carried out the illegal copy of the ready-made program, for example, it copied the floppy disk 1 and it used it by alien-system B, there was no means which finds out this. Moreover, although the copy prevention means of a ready-made program was proposed from the former, it does not forbid copy itself of a program and had the trouble where it became impossible to also take a just copy like a backup file.

[0005] It was made in order that this invention might cancel the above troubles, and the illegal copy of a ready-made program can discover easily, and the just copy to which it is moreover carried out within the same system like a backup file aims at obtaining the data communication system which used the possible ready-made program.

[0006]

[The means for solving a technical problem] While the data communication system concerning this invention uses that to which the characteristic identifier was added for every product medium with which it was stored as a ready-made program. An identifier sending-out means to send out the identifier information added to the above-mentioned program at the time of the channel establishment which uses this program for each system to the other party system. It has the identifier management tool which performs reference of the existence of a store on the identifier list of identifier informations delivered from the other party, and the same identifier information under identifier list etc.

[0007]

[Operation] Since the identifier information added to the ready-made program used is delivered to the other party system by establishment of the channel between alien systems and is stored in the identifier list of other party systems, the data communication system in this invention If the same ready-made program is used for the data communication from two or more systems to the same other party system by the illegal copy from the same product medium It is stored as an identifier information from a system that the same identifier informations as the identifier list of the other party system differed, and an illegal copy can be easily discovered by reference of the existence of the same identifier information on an identifier management tool. However,

since it does not regard as what is depended on an illegal copy unless it is used by the alien system even if the program copied within the same system is used, it is satisfactory.

[0008]

[Example] Hereafter, one example of this invention is explained about drawing. Each system by which drawing 1 is the conceptual diagram showing one example of this invention, and A, B, and C were distributed in drawing. The ready-made program by which N carries out the product medium of a network and 1, and the floppy disk of \*\*\*\* and 1Q are stored in these floppy disks 1. The identifier peculiar to this floppy disk 1 by which 1X was added to these ready-made program 1Q, 2A, and 2B the hard disk of each systems A and B, and 3A and 3B. The computer of each systems A and B, the program to which 4 operates within system C, and 5 are identifier lists which store the identifier information delivered from the communications-partner side systems A and B.

[0009] Drawing 2 is the outline block diagram showing one system in this example, and 1Q, 1X, 3, and 5 are the ready-made program and identifier in either of the systems A, B, and C of drawing 1 (or others), a computer, and an identifier list in drawing. The communications-partner side system whose 6 is either of the systems A, B, and C of drawing 1 (or others), A channel establishment means by which 7 establishes the channel between the other party systems 6 in network N in communication start. A data transceiver means by which 8 performs transmission and reception of the other party system 6 and data with the established channel. An identifier sending-out means to send out the information on identifier 1X that 9 was added to use program 1Q according to the channel establishment by the channel establishment means 7 to the other party system 6, and 10 Store in the identifier list 5 the identifier information delivered from the other party system 6, or It is the identifier management tool which deletes the identifier information on the program used for this released communication at the time of the channel release by the channel establishment means 7 from the identifier list 5, or searches existence of the same identifier information under identifier list 5.

[0010] Next, the floppy disk 1 with the same systems A and B is explained for it carrying out the illegal copy of the operation, and using it. First, in systems A and B, it is read with identifier 1X by which program 1Q was added to it at the floppy disk 1 offered as a product and each hard disk 2A from the copy of that, and 2B, and is stored.

[0011] And suppose that data communication is first performed between system A and system C using program 1Q. Program 1Q stored by computer 3A in hard disk 2A is read with identifier 1X. According to the program, communication for establishing a channel in network N among both by the channel establishment means 7 is performed. If a channel is established, while the information on identifier 1X in program 1Q will be delivered to system C which is the other party system 6 by the identifier sending-out means 9 Data communication is performed between the programs 4 of program 1Q and system C through this channel by the data transceiver means 8. The identifier information sent to system C from system A is stored in the identifier list 5 by the identifier management tool 10 of system C.

[0012] Next, suppose that data communication is performed between system B and system C using the program 1Q same before releasing the channel between system A and the system C as system A which carried out the illegal copy. When the same processing as \*\*\*\* is performed and a channel is established by the channel establishment means 7 of system B While the information on identifier 1X is delivered to system C by the identifier sending-out means 9 and this identifier information is also stored in the identifier list 5 by the identifier management tool 10 of system C The comparison with the identifier which an identifier [ finishing / a store / already ] is searched and newly received is performed, it becomes clear that the same identifier already exists by this, and it can check that it is what one program of the systems A and B depends on an illegal copy. If a channel is released by the channel establishment means 7, by the identifier management tool 10, the identifier information on the program used for the released communication will be deleted.

[0013] In addition, although the above-mentioned example showed the example which distinguishes the existence of an unauthorized use of the program currently used simultaneously, it is enabled to check the original medium of the program currently used on each system by managing the address of the system which used the program of an identifier information and its identifier for the identifier list on a disk file by the pair.

[0014]

[Effect of the invention] As mentioned above, while that to which the characteristic identifier was added for every product medium with which it was stored as a ready-made program is used according to this invention An identifier sending-out means to send out the identifier information added to the above-mentioned program at the time of the channel establishment which uses this program for each system to the other party system. Since it had the identifier management tool which performs reference of the existence of a store on the identifier list of identifier informations delivered from the other party, and the same identifier information under identifier list etc. It is effective in the data communication system with easy program management, such as authentication of the original medium of the ready-made program currently used by each system on a network and a check of illegal copy use of a program, being obtained.

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[Translation done.]

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**TECHNICAL FIELD**

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[Field of the Invention] This invention relates to enhancement of the management formula of the ready-made program used especially for the communication about the data communication system between each system distributed through the network.

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PRIOR ART

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[Prior art] Generally, what the program used by each system in a data communication system is stored in mediums, such as a magnetic tape and a floppy disk, as a ready-made program, and is offered as a product is used. Drawing 3 is the conceptual diagram showing the use gestalt of such a program in the conventional communication mode. Each system by which A, B, and C were distributed in drawing, the network where N forms a channel between these systems A and B and C. The floppy disk by which program 1P [ready-made in 1] were stored, and were offered as a product. The hard disk of each systems A and B which stores program 1P into which 2A and 2B were read from floppy disks 1A and 1B, and 3A and 3B Hard disk 2A, the computer of each systems A and B which read program 1P from 2B, for example, perform data communication between system C, and 4 are programs which operate within system C and perform systems A and B and data communication.

[0003] Next, an operation is explained. First, when system A is constituted, program 1P are read and stored in hard disk 2A from the floppy disk 1 offered as a product. And in order to perform data communication of system A and system C using program 1P, program 1P stored by computer 3A in hard disk 2A are read, communication for establishing a channel in network N among both first according to the program is performed, a channel is established and data communication is performed between program 1P and the program 4 through the channel of code. Data communication is performed by the same processing also between system B and system C.

[0004]

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**EFFECT OF THE INVENTION**

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[Effect of the invention] As mentioned above, while that to which the characteristic identifier was added for very product medium with which it was stored as a ready-made program is used according to this invention. An identifier sending-out means to send out the identifier information added to the above-mentioned program at the time of the channel establishment which uses this program for each system to the other party system. Since it had the identifier management tool which performs reference of the existence of a store on the identifier list of identifier informations delivered from the other party, and the same identifier information under identifier list etc. It is effective in the data communication system with easy program management, such as authentication of the original medium of the ready-made program currently used by each system on a network and a check of illegal copy use of a program, being obtained.

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TECHNICAL PROBLEM

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[Object of the Invention] The conventional data communication system is constituted as mentioned above, and although carried out using ready-made program 1P read and stored in the self-system from the floppy disk 1 offered as a product in each system, to read a management of a ready-made program and the content of metaphor program 1 on prevention P of an illegal copy into each system from the same another floppy disk 1 offered as a product in each system but is desired. However, in this conventional formula, even if it carried out the illegal copy of the ready-made program, for example, it copied the floppy disk 1 and it used it by alien-system B, there was no means which finds out this. Moreover, although the copy prevention means of a ready-made program was proposed from the former, it does not forbid copy itself of a program and had the trouble where it became impossible to also take a just copy like a backup file.

[0005] It was made in order that this invention might cancel the above troubles, and the illegal copy of a ready-made program can discover easily, and the just copy to which it is moreover carried out within the same system like a backup file aims at obtaining the data communication system which used the possible ready-made program.

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MEANS

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[The means for solving a technical problem] While the data communication system concerning this invention uses that to which the characteristic identifier was added for every product medium with which it was stored as a ready-made program An identifier sending-out means to send out the identifier information added to the above-mentioned program at the time of the channel establishment which uses this program for each system to the other party system. It has the identifier management tool which performs reference of the existence of a store on the identifier list of identifier informations delivered from the other party, and the same identifier information under identifier list etc.

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**OPERATION**

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[Operation] Since the identifier information added to the ready-made program used is delivered to the other party system by establishment of the channel between alien systems and is stored in the identifier list of other party systems, the data communication system in this invention If the same ready-made program is used for the data communication from two or more systems to the same other party system by the illegal copy from the same product medium It is stored as an identifier information from a system that the same identifier informations as the identifier list of the other party system differed, and an illegal copy can be easily discovered by reference of the existence of the same identifier information on an identifier management tool. However, since it does not regard as what is depended on an illegal copy unless it is used by the alien system even if the program copied within the same system is used, it is satisfactory.

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EXAMPLE

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[Example] Hereafter, one example of this invention is explained about drawing. Each system by which drawing 1 is the conceptual diagram showing one example of this invention, and A, B, and C were distributed in drawing. The ready-made program by which N carries out the product medium of a network and 1, and the floppy disk of \*\*\*\* and 1Q are stored in these floppy disks 1. The identifier peculiar to this floppy disk 1 by which 1X was added to these ready-made program 1Q, 2A, and 2B the hard disk of each systems A and B, and 3A and 3B. The computer of each systems A and B, the program to which 4 operates within system C, and 5 are identifier lists which store the identifier information delivered from the communications-partner side systems A and B. [0009] Drawing 2 is the outline block diagram showing one system in this example, and 1Q, 1X, 3, and 5 are the ready-made program and identifier in either of the systems A, B, and C of drawing 1 (or others), a computer, and an identifier list in drawing. The communications-partner side system whose 6 is either of the systems A, B, and C of drawing 1 (or others), A channel establishment means by which 7 establishes the channel between the other party systems 6 in network N in communication start, A data transceiver means by which 8 performs transmission and reception of the other party system 6 and data with the established channel, An identifier sending-out means to send out the information on identifier 1X that 9 was added to use program 1Q according to the channel establishment by the channel establishment means 7 to the other party system 6, and 10 Store in the identifier list 5 the identifier information delivered from the other party system 6, or It is the identifier management tool which deletes the identifier information on the program used for this released communication at the time of the channel release by the channel establishment means 7 from the identifier list 5, or searches existence of the same identifier information under identifier list 5.

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[0013] In addition, although the above-mentioned example showed the example which distinguishes the existence of an unauthorized use of the program currently used simultaneously, it is enabled to check the original medium of the program currently used on each system by managing the address of the system which used the program of an identifier information and its identifier for the identifier list on a disk file by the pair.

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DESCRIPTION OF DRAWINGS

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[An easy explanation of a drawing]

[ Drawing 1 ] The conceptual diagram showing one example of this invention.

[ Drawing 2 ] The outline block diagram showing one system in this example.

[ Drawing 3 ] The conceptual diagram showing the use gestalt of the ready-made program in the conventional formula.

[An explanation of a sign]

A, B, C Each system

N Network

1 Product Medium (Floppy Disk)

1Q Ready-made program

1X Identifier

2A, 2B Hard disk

3A, 3B Computer

5 Identifier List

6 Other Party System

7 Channel Establishment Means

8 Data Transceiver Means

9 Identifier Sending-Out Means

10 Identifier Management Tool

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[Translation done.]

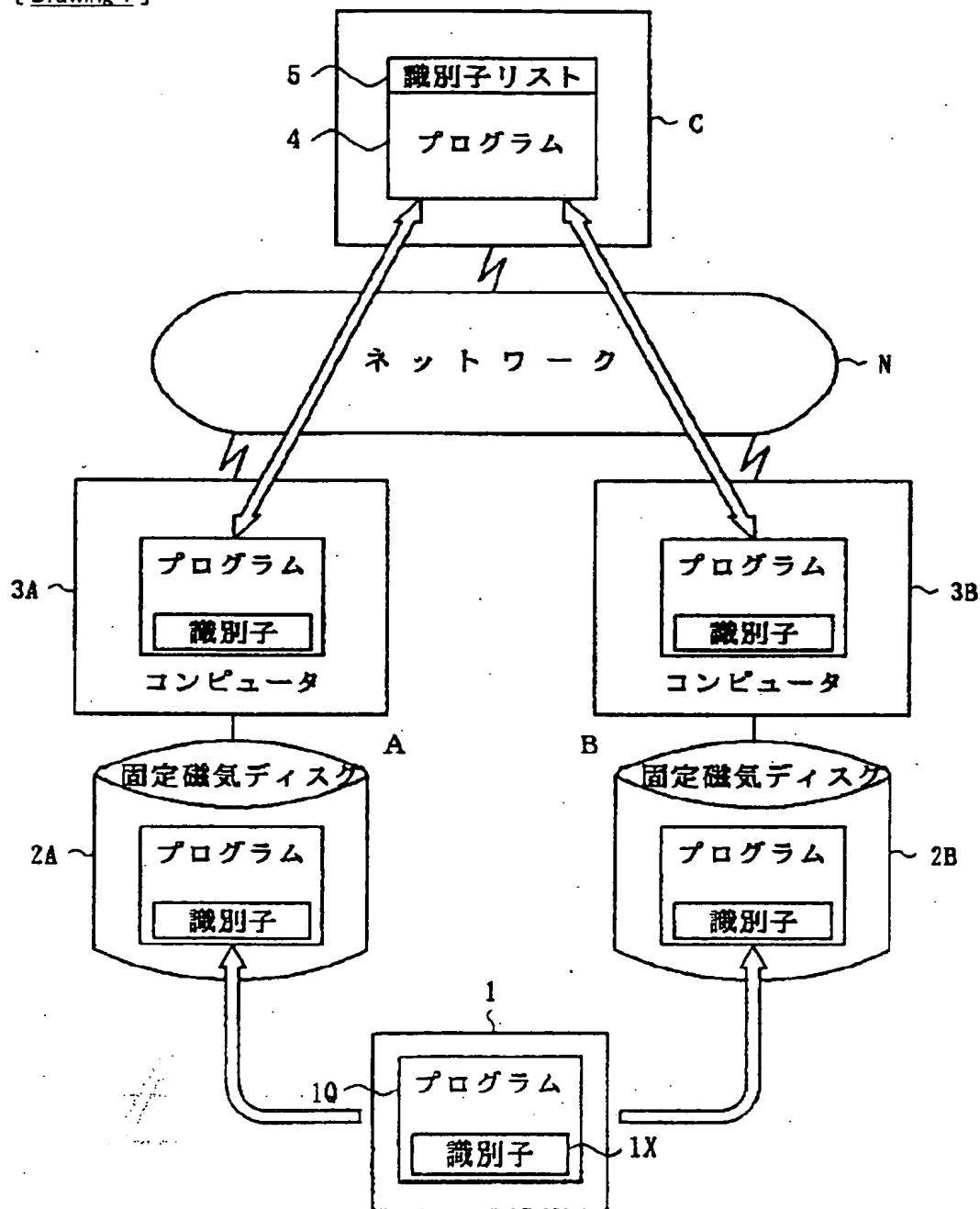
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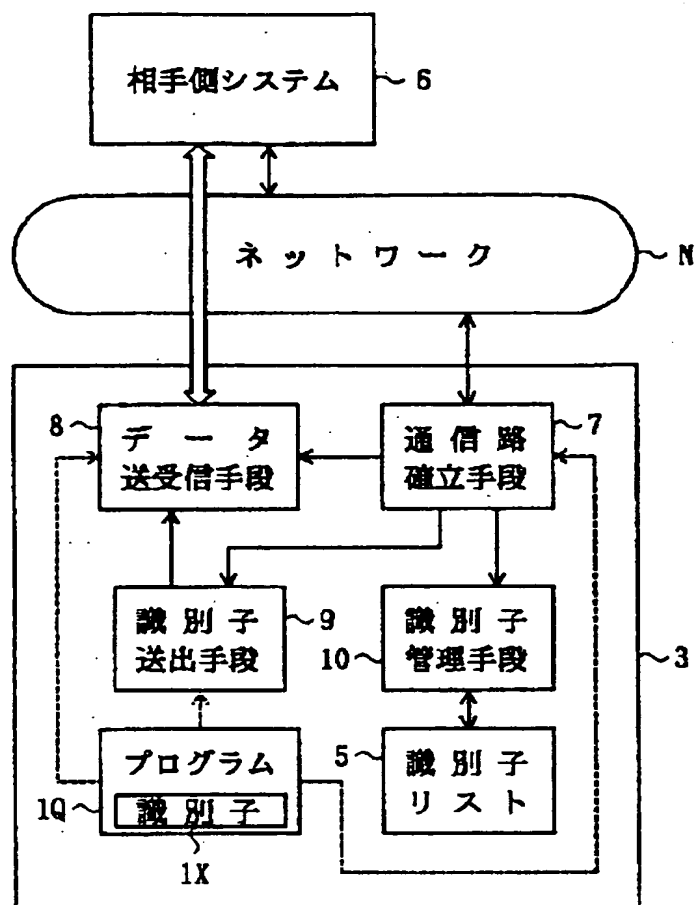
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## DRAWINGS

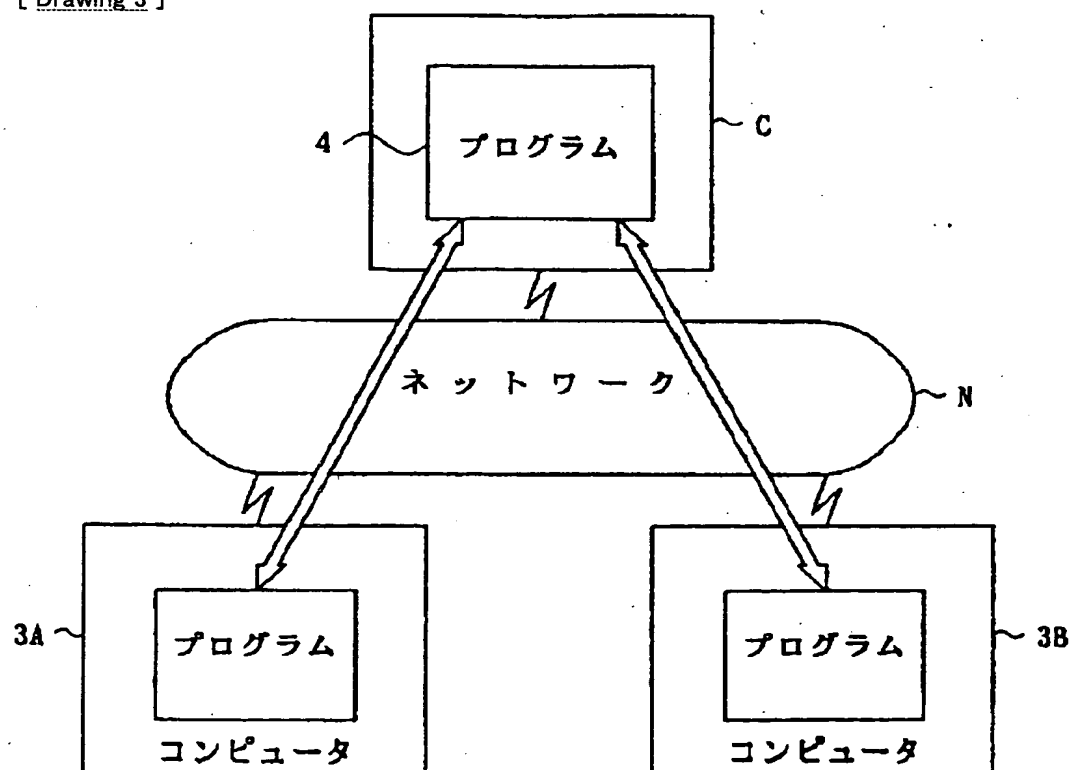
[ Drawing 1 ]

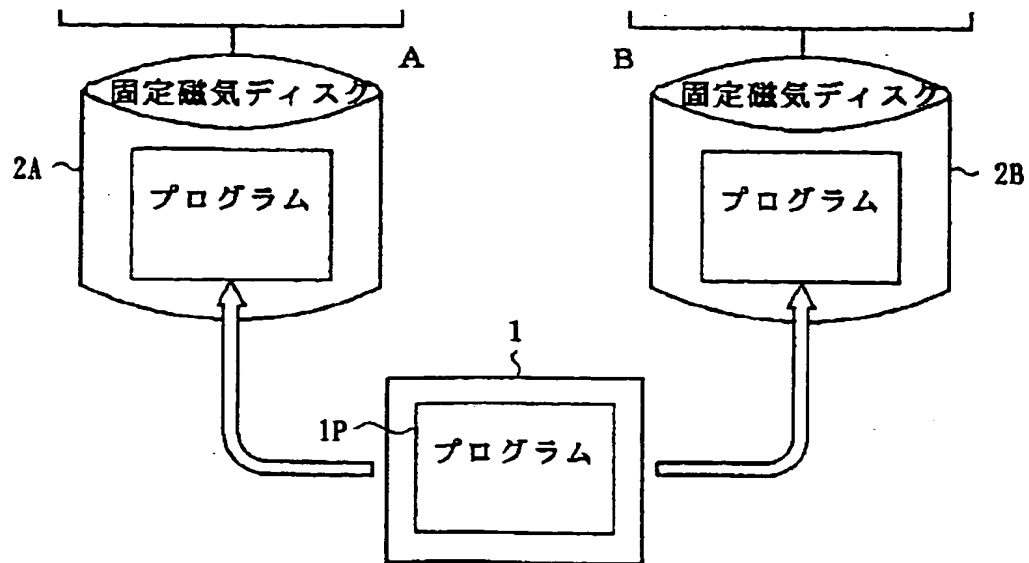


[ Drawing 2 ]



[ Drawing 3 ]





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[Translation done.]